
Electric Quarterly Report (EQR) Application Refresh

System Overview – July 11, 2012

Agenda

- Overview of EQR Systems Mapping Legacy to New
- Review of New System Interfaces
- Questions

EQR Public Submission Interface

Mapping between Legacy and New

Legacy System	New System
Manual shared pin number creation	eRegistration Company Registration with delegation
EQR Submission Application	EQR Submission Web Client Forms Submission Web Service which allows for Systems Integration
Requires Download and installation of client side software	Does Not Require Download or installation
This application runs unmanaged code on the clients desktop	Does not require unmanaged code to run on the client desktops
CSV Import Feature	Forms Submission Web Service Submit XML files Web client Import feature for XML and CSV files
	Email Notifications

EQR Viewer Mapping Between Legacy and New

Legacy System	New System
EQR Web Viewer	EQR Web Viewer
FoxPro, CSV and XML Download	CSV and XML Download
	Data Services for Integration via EQR Service

Legacy EQR Client Application

- Download Install & Configure
- Designate Respondent and Filing Year/Quarter
- Preparing the Submission
- Copy Data from Previous Period Functions
- Importing Data Into EQR
- Amending EQR Data
- Submitting the Filing to FERC
- Submitting the Re-filing to FERC
- Archiving and Restoring Archived Data

Legacy System Download Install & Configure

- The existing application requires you to download and Install the application. Tasks Include:
 - ❑ Performing EQR Installation
 - ❑ Initial Operation and Setup of EQR Software
 - ❑ Downloading Your Initial EQR Database
 - Obtain PIN
 - ❑ Internet Setup
 - ❑ Configuring the EQR Application
 - ❑ Network Configuration

New System Interface

- Company Registration
- EQR Web Client
 - Import XML or CSV
- EQR Web Services
- Email Notifications
- EQR Reporting Web Viewer

Company Registration

- Login to FERCOOnline
- Login to Company Registration
- Request to File the form EQR
- Delegate eRegistration Accounts
 - Who can file on behalf of the Company

FERCOnline Login

FERC Online - Log In - Windows Internet Explorer

https://dev.ferc.gov/Login.aspx

File Edit View Favorites Tools Help

FERC Online - Log In x Executing Manage Company Re... FERC: Documents & Fi... Page

FERC Online

- Web Applications of the Federal Energy Regulatory Commission

www.ferc.gov

FERC Online Home	Registered eMail address or FERC ID:	<input type="text"/>
About FERC Online	Password:	<input type="password"/>
Log In	Forgot Password?	<input type="button" value="Log In"/>
eRegister	New User	
Company Registration		
eFiling		

Company Registration Login

Company Registration - Windows Internet Explorer

https://dev.ferc.gov/Company.aspx

File Edit View Favorites Tools Help

Company Registrat... Executing Manage Company Re... FERC: Documents & Fi...

FERC Online - Web Applications of the Federal Energy Regulatory Commission

www.ferc.gov

FERC Online Home

About FERC Online

Log Out

Edit Registration

Company Registration

eFiling

eSubscription

eComment

Company Registration

Would you like to:

1. [Register](#) a company for the first time
2. [Reset](#) the password for the Company Identifier
3. Edit an existing Company Identifier's data

Company CID :

Password :

Login Cancel

[Help](#)

Register Company

Company Registration - Windows Internet Explorer

https://ferconline.ferc.gov/Company.aspx

Company Registration

FERC Online - Web Applications of the Federal Energy Regulatory Commission

www.ferc.gov

[Logout:](#) Company

[Regulatory Program](#)

* FPA (Market Based Rate) Public Utilities

[Name, Location and Contact Information](#)

* Company Name

* Company Address

* Company City

* Company State * Company Zipcode

Company Country

* Company Phone i.e. 555-555-5555 or 011-52-555-555-5555

* Company Website i.e. www.ferc.gov

* Company Email

* Confirm Company Email

[Help](#)

Delegate eRegistration Accounts

[Logout:](#) Custom Energy with Change

Forms

<input checked="" type="checkbox"/> eTariff	Approved	on	11/17/2011
<input checked="" type="checkbox"/> EQR	Approved	on	11/17/2011
<input checked="" type="checkbox"/> 714	Approved	on	11/18/2011

Assign Representative to Forms

eReg account(email):

Renee Ng - Renee.Ng@ferc.gov

Forms:

Representatives assigned to Forms

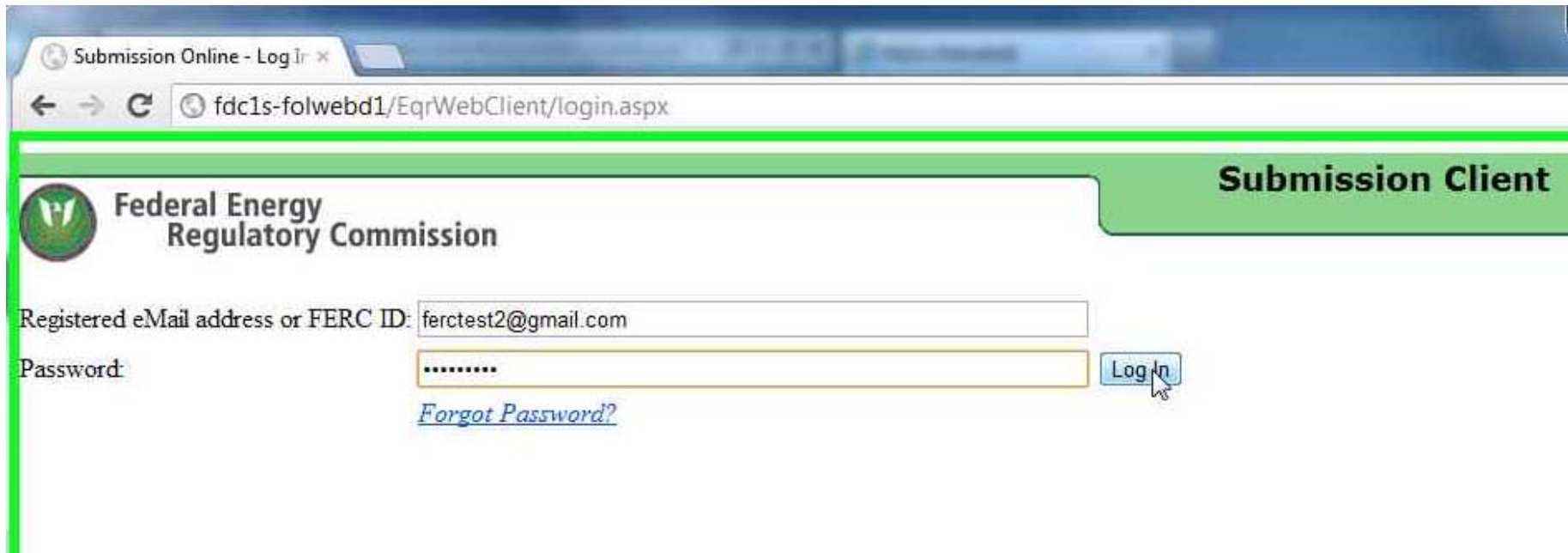
- ☒ eTariff
 - Victor Pradel - victor.pradel@ferc.gov
- ☒ EQR
 - Renee Ng - Renee.Ng@ferc.gov

[Help](#)

New EQR Web Client

- Login
- Assign Respondent and Filing Period
- Assign Respondent Contacts
- Assign Agents / Agent Contacts
- Assign Sellers
- Add Buyers
- Enter Contracts
- Enter Transactions
- Submit Filing


New EQR Web Login



The screenshot shows a web browser window with the address bar displaying "fdcl1s-folwebd1/EqrWebClient/login.aspx". The page header includes the Federal Energy Regulatory Commission logo and the text "Federal Energy Regulatory Commission" on the left, and a green box with the text "Submission Client" on the right. The main content area contains a login form with two input fields: "Registered eMail address or FERC ID:" with the value "ferctest2@gmail.com" and "Password:" with masked characters "*****". A "Log In" button is positioned to the right of the password field. Below the password field is a blue link labeled "Forgot Password?".

Submission Online - Log In x

fdcl1s-folwebd1/EqrWebClient/login.aspx

 **Federal Energy
Regulatory Commission**

Submission Client

Registered eMail address or FERC ID: ferctest2@gmail.com

Password: *****

[Forgot Password?](#)

Log In

Select Respondent and Filing Period

Select Respondent

Respondent

Market Test 1 ▼

Filing Period

Q2, Apr-Jun 2011 ▼

Next

Cancel

Select Filing Action

Modification Filing

Modify Filing ☐

Replace entire filing with a new filing

Blank Filing ☐

Prefill from CSV file / XML File ☒

Previous

Next

Cancel

If there is any existing data for the selected filing period, the options for "Modification Filing" will be present. If there is no data "New Filing" will be indicated by the label and only the New Filing and Prefill from CSV file / XML file options will be available.

Prefill from CSV / XML File

Will allow a user to upload CSV or XML files. The user will then be able to review and edit the uploaded data from the web client.

New Filing

Blank Filing ☐

Prefill from CSV file / XML File ☐

Previous

Next

Cancel

Web Client – Import XML / CSV

☐ Import CSV Files ☒ Import XML File

XML File:

☒ Import CSV Files ☐ Import XML File

Identification CSV File:

Contract CSV File:

Transaction CSV File:

Respondent Contacts

Respondent Name: FERC Test2 Co.

Respondent Contact:

<u>Email</u>	<u>Name</u>	<u>Program</u>	<u>Phone</u>
Harris.Tran@ferc.gov	Harris Tran		202-502-6827
Femi.Aderounmu@ferc.gov	Femi Aderounmu		202-502-8036

Add

Previous

Next

Cancel

Add Respondent Contacts

Respondent Name: FERC Test2 Co.

Respondent Contact:

Email	Name	Program	Phone
Harris.Tran@ferc.gov	Harris Tran		202-502-6827
Femi.Aderounmu@ferc.gov	Femi Aderounmu		202-502-8036

Add

Prefill contact data by:

Contact Name and Email*

Select Contact

*If a contact is not on the select list you can go to Company Registration to add the contact as a company representative. Once added as a company representative, the contact will be available on the list.

Required fields are marked with *

Display Name:

Save

Email: *



Delete

First Name: *



Reset

Middle Initial:

Last Name: *



Prefix:

Suffix:

Title:

Address: *

City: *

State: *

Zip: *

Country:

Phone: *

Previous

Next

Cancel

Agents – Add Contract

Agent Name: FERC Test2 Co.

Agent Contact:

Email	Name	Program	Phone
Harris.Tran@ferc.gov	Harris Tran		202-502-6827
Femi.Aderounmu@ferc.gov	Femi Aderounmu		202-502-8036

Add

Prefill contact data by:

Contact Name and Email*

Select Contact ▼

*If a contact is not on the select list you can go to Company Registration to add the contact as a company representative. Once added as a company representative, the contact will be available on the list.

Required fields are marked with *

Display Name:

Save

Email: *

Type for search or edit



Delete

First Name: *

Type for search or edit



Reset

Middle Initial:

Last Name: *

Type for search or edit



Prefix:

Suffix:

Title:

Address: *

City: *

State: *

ALASKA ▼

Zip: *

Country:

UNITED STATES ▼

Phone: *

i.e. 555-555-5555 or 011-52-555-555-5555

Previous

Next

Cancel

Sellers

Sellers Buyers Contracts

Sellers:

CID	Name
C000300	FPA only one 1

AddDelete

Seller Contact Details:

Required fields are marked with *

Display Name:

Henock Tekle

Edit

Email: *

henockteke@ferc.gov

Delete

First Name: *

Henock

Reset

Middle Initial:

Last Name: *

Tekle

Prefix:

Mr.

Suffix:

Title:

Address: *

888 First st

City: *

Washington

State: *

DISTRICT OF COLUMBIA

Zip: *

20426

Country:

UNITED STATES

Phone: *

202-502-6848

i.e. 555-555-5555 or 011-52-555-555-5555

Buyers

Sellers

Buyers

Contracts

Buyers:

Company Name
MArket Test 1

Name:

MArket Test 1

DUNS:

698745213

Edit

Delete

Reset

Contract: 18 ▼

Seller: FPA only one 1

Buyer: Market Test 1

Ferc Tariff Reference: 7

Service Agreement: 7777777

Execution Date: 2012-07-30

Termination Date: 2012-07-30

Contract Details **Contract Products** Transactions

Contract Service Agreement	Seller	Buyer	Ferc Tariff Reference
7777777	FPA only one 1	Market Test 1	7
222222222	FPA only one 1	Market Test 1	9565
3333333	FPA only one 1	Market Test 1	33333333333
55555555	FPA only one 1	Market Test 1	5555

1 [2](#)

Add

Seller: FPA only one 1

Buyer: Market Test 1

Contract Service Agreement Id: 7777777

Ferc Tariff Reference: 7

Customer DUNS: 698745213

☐ Is Affiliate

Contract Execution Date: 2012-07-30

Contract Terms Start Date: 2012-07-31

Contract Termination Date: 2012-07-28

Actual Termination Date: 2012-07-05

Extension Provision Description:

u

Edit

Delete

Reset

<< Previous

Submit

Contract Products

Contract Details

Contract Products

Transactions

Product Type	Product Name	Class Name	Term Name	Increment Name
CB	CAPACITY	F	LT	D

Add

Product Type: CB

Product Name: CAPACITY

Class Name: F

Term Name: LT

Increment Name: D

Increment Peaking Name: FP

Quantity: 200.00

Rate: 204.23

Rate Minimum: 0.00

Begin Date: 2012-07-05T00:00:00

Rate Maximum: 0.00

Rate Description:

Rate Units: \$/KW

Units: FLAT RATE

POD Bal. Authority:

POD Specific Location/Hub: Cinergy (into)

POR Bal. Authority:

POR Specific Location/Hub: Cinergy (into)

Time Zone: ADT

End Date:

Save

Delete

Reset

Transactions

Contract Details Contract Products Transactions

Product	Term	Quantity	Price	Units	Total Transmission Charge	Transaction Charge	Begin Date	End Date
ENERGY	LT	2	\$23.000	\$/KW	\$56.000	\$2.000	2012-07-05T00:00:00	2012-07-06T00:00:00

Add

Product Name: ENERGY

Term Name: LT

Quantity: 2

POD Balancing Authority: AEC

Rate Units: \$/KW

Transaction Charge: 2.00

Begin Date: 2012-07-05T00:00:00

Time Zone: ADT

Increment Name: D

Increment Peaking Name: FP

POD Specific Location\Hub:

Price: 23.00

Total Transmission Charge: 56.00

End Date: 2012-07-06T00:00:00

Class Name: F

Save

Delete

Reset

<< Previous

Submit

Submit

Regulatory Commission

Q1, Jan-Mar 2002 CID : C000290

Contracts

Contract: 812

Seller: Constellation Energy Commodities Group, Inc. Buyer: ATLANTIC CITY ELECTRIC COMPANY

Reference: FOURTH REVISED VOLUME NO. 11 Service Agreement: 20392

Expiration Date: 2008-02-13 Termination Date: 2008-02-13

Contract Products Transactions

Contract	Term	Quantity	Price	Units	Total Transmission Charge	Start Date	End Date
S SERVICE	ST	72288.4471	\$110.593	\$/MWH	\$0.00	2011-01-01	2011-01-31
S SERVICE	ST	56357.8557	\$110.593	\$/MWH	\$0.00	2011-01-01	2011-02-28
S SERVICE	ST	54447.2449	\$110.593	\$/MWH	\$0.00	2011-01-01	2011-03-31

Are you sure you want to submit the filing?

OK Cancel

Transaction Details

Product Name: BOOKED OUT POWER

Term Name: LT

Quantity: 2

Trading Authority: AEC

Rate Units: \$/KW

Transmission Charge: 10,000.00

Begin Date: 2012-04-26T00:00:00

Time Zone: ADT

Increment Name: D

Increment Peaking Name: FP

POD Specific Location\Hub:

Price: 10.00

Total Transmission Charge: 10.00

End Date: 2012-04-27T00:00:00

Class Name: F

Save Delete Reset

Confirmation Page

Confirmation

The Eqr filing has been submitted successfully.

Note:

After submitting a filing, the data will be locked until the filing is validated. The validation process will send out an email notification which contains the details of the outcome of the validation. If the validation is not successful, the data will be unlocked to allow correction and can be resubmitted.

[Return to Home page](#)

Email Notifications

- Receipt
- Validation
- Acceptance
- Rejection

Validation Email

- Subject: FERC EQR Validation
- ← Begin Body →
- EQR Validation
- -----
- This is to confirm that the Electronic Quarterly Report (EQR) validation facility has received the filing contained in {0}. The content of the filing was found to be:
- -Submission ID:{1}
- -Company Identifier: {2}
- -Filing Identifier: {3}
- -EQR Identifier: {4}
- -Validation email: {5}
- -Time file received: {6}
- -Time file began processing: {7}
- We have examined the data content of your filing. Following is the list of specific data content defects that were identified. In some cases the list may not be exhaustive based on the type of defect identified. Types of defects are:
- Errors – Severe defects that result in rejection of the filing.
- Warnings – Minor Defects; Filing will be accepted for processing if no Error was identified.
- ---Error List
- {8}
- --Warning List
- {9}
- Thank you for participating in the FERC Electronic Filing System. If you have any questions, please contact FERC at:
- E-Mail: ferconlinesupport@ferc.gov (do not send filings to this address)
- Toll Free: 866-208-3676.
- ← End Body →

New Web Viewer -Reports And Analysis

Report Viewer

Federal Energy Regulatory Commission

Reporting Downloads

Summary Reports Filing Inquiries

Please choose from the options below, then click the Download button to obtain the EQR Summary Report as an .PDF file.

Report Type: Product Report Period: Q2, Apr-Jun 2008

Respondent:

- American Electric Power Service Corporation
- American Power Exchange, Inc.
- American PowerNet Management L.P.
- American Transmission Company LLC
- ANP Bellingham Energy Company, LLC
- ANP Blackstone Energy Company, LLC
- ANP Funding I, LLC
- Anthracite Power and Light Company
- APN Starfirst, L.P.
- Appalachian Power Company
- Apple Group, LLC
- APS Energy Services Company, Inc.
- Aquila Inc
- Aragonne Wind LLC
- ArcLight Energy Marketing, LLC

Seller: American Electric Power Service Corporation

File Download

Do you want to open or save this file?

Name: Product_Report_4_18_2012.pdf
Type: Adobe Acrobat Document, 3.58KB
From: localhost

Open Save Cancel

Clear Download

While files from the Internet can be useful, some files can potentially ham your computer. If you do not trust the source, do not open or save this file. [What's the risk?](#)

Example Report -Sales by Product Name

Product_Report_4_18_2012[2].pdf - Adobe Acrobat Pro

File Edit View Document Comments Forms Tools Advanced Window Help

Create Combine Collaborate Secure Sign Forms Multimedia Comment

1 / 1 103% Find

Sales by Product Name

As Reported in the FERC Electric Quarterly Report (EQR), by Seller

The company name comes here

Report Period: Qtr. 2 2008


Product	Peak?	# of Lines	Transaction Charge (\$000)	Quantity	Avg. Price	High Price	Low Price
ENERGY	FP	8058	469528138.38	7806071.31	60.1491	8029.2149	6194.5591
ENERGY	N/A	4216	78899870.36	4046428.97	19.4986	291.4100	-6.9800
ENERGY	OP	3061	197488616.37	4259926.00	46.3596	9394.7400	6015.0800
ENERGY	P	2006	606581344.78	8295938.00	73.1179	16229.7510	11700.1030
ENERGY	Total	17341	1352497969.89	24408364.28	49.7813	16229.7510	-6.9800
CAPACITY		32	24489176.73				
Non Energy/Capacity		24074	62712930.56				
Non Energy/Capacity	Total	24074	62712930.56				
Grand Total		82862	2854910977.63				






Description of Column Headings:


Product: Product name listed in EQR (Energy, Bookouts [Booked Out Power], and Capacity. All other products are combined.

New Web Viewer Filing Inquiries

– Contracts by Company

 Report Viewer

 Page  Tools

 **Federal Energy
Regulatory Commission**

Report Viewer

Reporting **Downloads**

Summary Reports **Filing Inquiries**

To search for filings, enter your search criteria below.
The Reporting Quarter and the Respondent and/or Seller Company Name(s) must be selected.

Main Criteria

Report Type: **Contracts By Company** Report Period: **Q2, Apr-Jun 2008**

Respondent: **APS Energy Services Company, Inc.** Seller: **APS Energy Services Company, Inc.**

Optional Criteria (Applicable to the Companies selected above)


Customer Company: **-Select a Customer Company-**

Sort Results By: **Customer Company Name** Export: **View Data On Screen** **Submit**


Respondent Company Name	Seller Company Name	Customer Company Name	Custom DUNS
APS Energy Services Company, Inc.	APS Energy Services Company, Inc.	Arizona Public Service Company	006901
APS Energy Services Company, Inc.	APS Energy Services Company, Inc.	Pinnacle West Marketing & Trading Co., LLC	788102
APS Energy Services Company, Inc.	APS Energy Services Company, Inc.	Shell Energy North America (US), L.P.	837565

File Download

Do you want to open or save this file?

 Name: **Contracts_By_Companies_4_18_2012.xls**
Type: **Microsoft Excel Worksheet, 6.13KB**
From: **localhost**

Open **Save** **Cancel**

 While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. [What's the risk?](#)

Contract
Income
ate
1/2000
1/2007
1/2008

Selective Filings Download

The screenshot shows the 'Report Viewer' interface for the 'Regulatory Commission'. The 'Downloads' tab is active, and the 'Selective Filings' sub-tab is selected. The 'Company' list includes: {Test Company B}, 511 Plaza Energy, LLC, AC Landfill Energy, LLC, Acadia Power Partners, LLC (highlighted), ACN Utility Services, Inc., AEP Generating Company (highlighted), and AEP Retail Energy Partners LLC. The 'Filing Period' dropdown is set to 'Q2, Apr-Jun 2012'. A 'File Download' dialog box is open, asking 'Do you want to open or save this file?'. The file details are: Name: CSV_Contracts_00067938_2008_0002.zip, Type: Compressed (zipped) Folder, 626 bytes, From: localhost. The dialog has 'Open', 'Save', and 'Cancel' buttons. Below the dialog, a table lists available downloads:

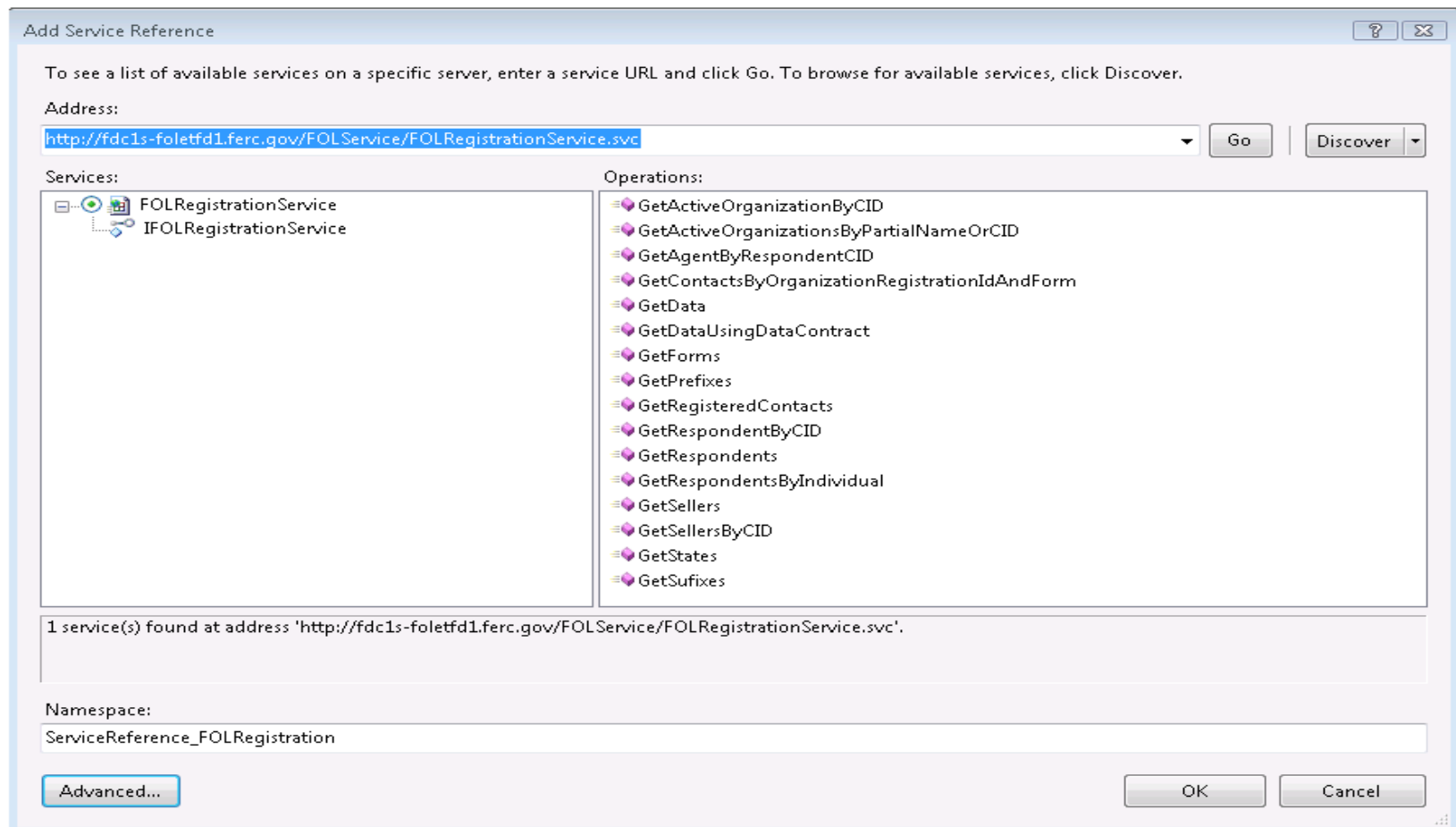
Period and Respondent	Download Link
Q2, Apr-Jun 2009 Acadia Power Partners, LLC	CSV_Contracts_00067938_2009_0002.zip
Q2, Apr-Jun 2009	CSV_Identities_00067938_2009_0002.zip
AEP Generating Company	CSV_Transactions_00067938_2009_0002.zip
	XML_00067938_2009_0002.zip

Buttons on the right: Display Selection, Reset.

New Web Services

- FOL Registration
- Forms Submission
- EQR Data Services

New FOL Registration Service



New Forms Submission Service

You have created a service.

To test this service, you will need to create a client and use it to call the service. You can do this using the svcutil.exe tool from the command line with the following syntax:

```
svcutil.exe http://fdcl1s-foletfd1.ferc.gov/SubmissionService/SubmissionService.svc?wsdl
```

This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and use the generated client class to call the Service. For example:

C#

```
class Test
{
    static void Main()
    {
        SubmissionServiceClient client = new SubmissionServiceClient();

        // Use the 'client' variable to call operations on the service.

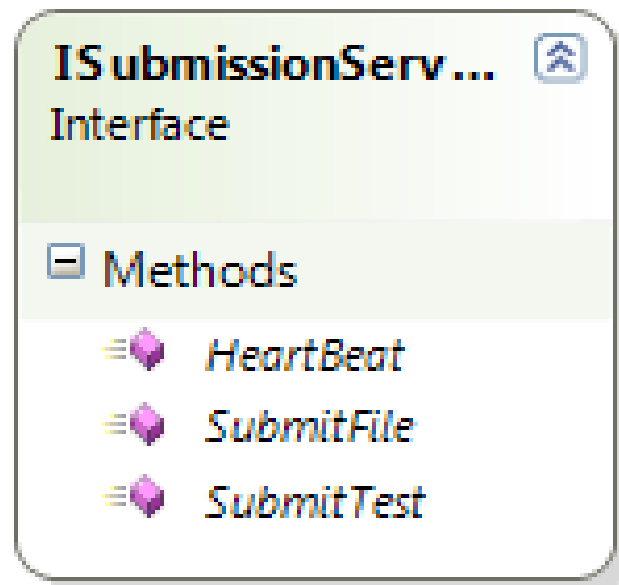
        // Always close the client.
        client.Close();
    }
}
```

Visual Basic

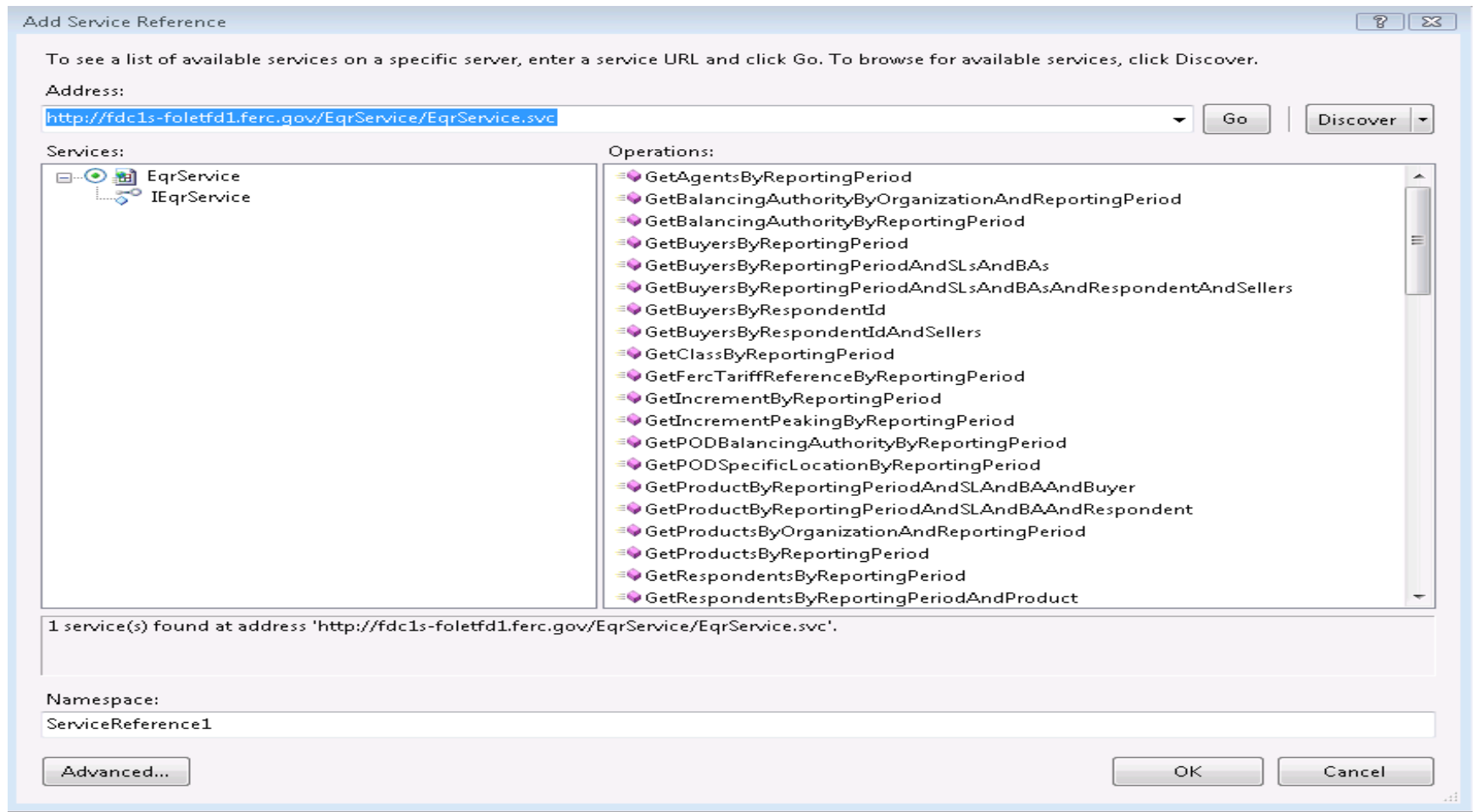
```
Class Test
    Shared Sub Main()
        Dim client As SubmissionServiceClient = New SubmissionServiceClient()
        ' Use the 'client' variable to call operations on the service.

        ' Always close the client.
        client.Close()
    End Sub
End Class
```

Forms Submission Service Methods



New EQR Services



EQR Service Methods

EqrService Interface

Methods

- GetAgentsByReportingPeriod
- getBalancingAuthorityByContrProductDate
- GetBalancingAuthorityByOrganizationAndReportingPeriod
- GetBalancingAuthorityByReportingPeriod
- getBalancingAuthorityByTransDate
- GetBuyersByReportingPeriod
- GetBuyersByReportingPeriodAndSLsAndBAs
- GetBuyersByReportingPeriodAndSLsAndBAsAndRespondentAndSellers
- GetBuyersByRespondentId
- GetBuyersByRespondentIdAndSellers
- GetClassByReportingPeriod
- getContract_ProductSelectById
- getContractByCID
- getContractByCompanies
- getContractProductStatusByDate
- getContractSelectById
- getCountries
- getCPCClassByDate
- getEQR_TransactionSelectById
- GetFercTariffReferenceByReportingPeriod
- getFilingSelectById
- getFilingStatusByDate
- getFilingTypeByDate
- getIncrementByDate
- GetIncrementByReportingPeriod
- getIncrementPeakingByDate
- GetIncrementPeakingByReportingPeriod
- GetPODBalancingAuthorityByReportingPeriod
- GetPODSpecificLocationByReportingPeriod

- getPolicy
- getProcessingErrorSubjectByDate
- GetProductByReportingPeriodAndSLAndBAAndBuyer
- GetProductByReportingPeriodAndSLAndBAAndRespondent
- GetProductsByOrganizationAndReportingPeriod
- GetProductsByReportingPeriod
- getProductTypeByDate
- getRateTypeByDate
- getRateUnitByDate
- getReportedReportingPeriod
- getReportingPeriodByDate
- getReportingPeriodByType
- getReportingPeriodByTypeYearAndNumber
- getReportingPeriodByYearAndNumber
- getReportingPeriods
- getReportingPeriodTypeByDate
- GetRespondentsByReportingPeriod
- GetRespondentsByReportingPeriodAndProduct
- GetRespondentsByReportingPeriodAndSLsAndBAs
- GetRespondentsByReportingPeriodAndSLsAndBAsAndBuyer
- GetSellersByReportingPeriod
- GetSellersByReportingPeriodAndProduct
- GetSellersByReportingPeriodAndSLsAndBAs
- GetSellersByReportingPeriodAndSLsAndBAsAndBuyer
- GetSellersByRespondentId
- GetServiceAgreementByReportingPeriod
- GetSpecificLocationByOrganizationAndReportingPeriod
- GetSpecificLocationByReportingPeriod

EQR Service Methods Continued

- getTermByDate
- GetTermByReportingPeriod
- getTimeZoneByDate
- getTransactionByCID
- GetTransactionsByCompany
- GetTransactionsByContract
- GetTransactionsByPointOfDelivery
- GetTransactionsByProduct
- getTransClassByDate
- getUnits
- getUnitsByDate
- getUnitsByID

Draft New EQR XML Schema

```
<?xml version="1.0" encoding="utf-8" ?>
<!-- edited with XMLSpy v2011 rel. 3 sp1 (http://www.altova.com) by ken (ferc) -->
- <xs:schema xmlns="http://ferc.gov/forms/eqr2011" xmlns:eqr="http://ferc.gov/forms/eqr2011" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://ferc.gov/forms/eqr2011" elementFormDefault="qualified" attributeFormDefault="unqualified" version="0.1" id="ferc_eqr_filing_2011_Structure">
  <!-- ***** INCLUDES ***** -->
  <!-- ***** -->
  <xs:include schemaLocation="http://eqr_dev.ferc.gov/XSD/XmlModelPublic_DataValue.xsd" />
  <!-- ***** SIMPLE TYPES ***** -->
  <!-- ***** -->
  - <xs:simpleType name="ProperName">
    - <xs:annotation>
      <xs:documentation xml:lang="en">Restricted to Letters, digits, hyphen, space, period, and apostrophe</xs:documentation>
    </xs:annotation>
    - <xs:restriction base="xs:token">
      <xs:pattern value="[\p{N}\p{L}\s]*" />
    </xs:restriction>
    </xs:simpleType>
  - <xs:simpleType name="EmailAddress">
    - <xs:annotation>
      <xs:documentation xml:lang="en">standard Email Address format</xs:documentation>
    </xs:annotation>
    - <xs:restriction base="xs:string">
      <xs:pattern value="[A-Za-z0-9_+!@[\p{N}\p{L}_]+)([.][\p{N}\p{L}_]+)*\.[\p{N}\p{L}_]+([.][\p{N}\p{L}_]+)*" />
      <xs:maxLength value="200" />
    </xs:restriction>
    </xs:simpleType>
  - <xs:simpleType name="Guid">
    - <xs:annotation>
      <xs:documentation xml:lang="en">Globally Unique identifier consisting of 32 hex digits grouped into hyphen separated segments with lengths of 8-4-4-4-12 digits each.
        F139FB87-919B-4618-AA57-B50A16DED71C</xs:documentation>
    </xs:annotation>
    - <xs:restriction base="xs:string">
      <xs:pattern value="[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}" />
    </xs:restriction>
    </xs:simpleType>
  - <xs:simpleType name="CID">
    - <xs:annotation>
      <xs:documentation xml:lang="en">Begins with either P or C characters (case-insensitive) followed by one or more digits</xs:documentation>
    </xs:annotation>
    - <xs:restriction base="xs:token">
      <xs:maxLength value="7" />
      <xs:pattern value="(P|p|C|c)[0-9]+" />
    </xs:restriction>
    </xs:simpleType>
```



XmlModelPublic_DataStructure.xsd



XmlModelPublic_DataValue.xsd

Questions?